



## SAFETY DATA SHEET

All Fleet™ SAE 15W-40 Engine Oil

Version: 2.6

Revision Date: 05/03/2021

Print Date:  
09/21/2022

GHS classification in accordance with the Hazardous Products Regulations

### SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

#### Product identifier

Trade name : All Fleet™ SAE 15W-40  
Engine Oil

Product code : 786811

#### Details of the supplier of the safety data sheet

Valvoline Canada Corp  
905 Winston Churchill Blvd  
Mississauga ON L5J 4P2  
Canada  
1-800-TEAMVAL (1-800-832-6825)

SDS@valvoline.com

#### Emergency telephone number

1-800-VALVOLINE (1-800-825-8654)

#### Regulatory Information Number

1-800-TEAMVAL (1-800-832-6825)

#### Product Information

1-800-TEAMVAL (1-800-832-6825)

### SECTION 2. HAZARDS IDENTIFICATION

#### GHS Classification

Not a hazardous substance or mixture.

#### GHS label elements

Not a hazardous substance or mixture.

#### Other hazards

The following percentage of the mixture consists of ingredient(s) with unknown acute toxicity:  
10.7668 %

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Chemical nature : Defatter

#### Hazardous components

Chemical name	CAS-No.	Classification	Concentration (%)
DISTILLATES (PETROLEUM), HYDROTREATED HEAVY PARAFFINIC	64742-54-7	Not a hazardous substance or mixture.	>=70.00 - < 90.00
Phosphorodithioic acid, mixed O,O-bis(sec-Bu and isooctyl)	113706-15-3	Skin Irrit. 2; H315	>=0.00 - < 1.50



## SAFETY DATA SHEET

All Fleet™ SAE 15W-40 Engine Oil

Version: 2.6

Revision Date: 05/03/2021

Print Date:  
09/21/2022

esters, zinc salts		Eye Dam. 1; H318	
PHOSPHORODITHIOIC ACID, MIXED O,O-BIS(1,3- DIMETHYLBUTYL AND ISO-PR) ESTERS, ZINC SALTS	84605-29-8	Skin Irrit. 2; H315 Eye Dam. 1; H318	$\geq 0.00$ - $< 1.50$
phenol, (tetrapropenyl) derivatives	74499-35-7	Skin Corr. 1C; H314 Eye Dam. 1; H318 Repr. 1B; H360	$\geq 0.00$ - $< 0.15$
DISTILLATES (PETROLEUM), HYDROTREATED HEAVY PARAFFINIC	64742-54-7	Not a hazardous substance or mixture.	$\geq 80.00$ - $\leq 100.00$
DISTILLATES (PETROLEUM), SOLVENT-DEWAXED HEAVY PARAFFINIC	64742-65-0	Asp. Tox. 1; H304	$\geq 1.00$ - $< 5.00$
Phosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and iso-Bu and iso-Pr) esters, zinc salts	85940-28-9	Skin Irrit. 2; H315 Eye Irrit. 2A; H319	$\geq 1.00$ - $< 5.00$

Actual concentration or concentration range is withheld as a trade secret

### SECTION 4. FIRST AID MEASURES

General advice	: Do not leave the victim unattended. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.
If inhaled	: If symptoms persist, call a physician. If unconscious, place in recovery position and seek medical advice.
In case of skin contact	: Wash contaminated clothing before re-use. If on skin, rinse well with water. Remove contaminated clothing. If irritation develops, get medical attention.
In case of eye contact	: Protect unharmed eye. Remove contact lenses. Immediately flush eye(s) with plenty of water.
If swallowed	: If symptoms persist, call a physician.



## SAFETY DATA SHEET

All Fleet™ SAE 15W-40 Engine Oil

Version: 2.6

Revision Date: 05/03/2021

Print Date:  
09/21/2022

Never give anything by mouth to an unconscious person.  
Do not give milk or alcoholic beverages.  
Obtain medical attention.

Most important symptoms and effects, both acute and delayed : No symptoms known or expected.

Notes to physician : No hazards which require special first aid measures.

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### SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.  
Water spray  
Foam  
Carbon dioxide (CO<sub>2</sub>)  
Dry chemical

Unsuitable extinguishing media : High volume water jet

Specific hazards during firefighting : Do not allow run-off from fire fighting to enter drains or water courses.  
If product is heated above its flash point it will produce vapors sufficient to support combustion. Vapors are heavier than air and may travel along the ground and be ignited by heat, pilot lights, other flames and ignition sources at locations near the point of release.

Hazardous combustion products : carbon dioxide and carbon monoxide  
Nitrogen oxides (NO<sub>x</sub>)

Specific extinguishing methods : Product is compatible with standard fire-fighting agents.

Further information : Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.

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### SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, : Persons not wearing protective equipment should be excluded



## SAFETY DATA SHEET

All Fleet™ SAE 15W-40 Engine Oil

Version: 2.6

Revision Date: 05/03/2021

Print Date:  
09/21/2022

protective equipment and emergency procedures	from area of spill until clean-up has been completed. Ensure adequate ventilation. Use personal protective equipment.
Environmental precautions	: If the product contaminates rivers and lakes or drains inform respective authorities. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.
Methods and materials for containment and cleaning up	: Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Keep in suitable, closed containers for disposal.
Other information	: Comply with all applicable federal, state, and local regulations.

### SECTION 7. HANDLING AND STORAGE

Advice on safe handling	: Dispose of rinse water in accordance with local and national regulations. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. Avoid contact with skin and eyes. Avoid exposure - obtain special instructions before use. Container hazardous when empty. Do not smoke. Do not breathe vapours/dust.
Conditions for safe storage	: Observe label precautions. Keep container tightly closed in a dry and well-ventilated place.

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
DISTILLATES (PETROLEUM), HYDROTREATED HEAVY PARAFFINIC	64742-54-7	TWA	5 mg/m3 Mist	CA AB OEL
		STEL	10 mg/m3 Mist	CA AB OEL
		TWAEV	5 mg/m3 Mist	CA QC OEL



# SAFETY DATA SHEET

All Fleet™ SAE 15W-40 Engine Oil

Version: 2.6

Revision Date: 05/03/2021

Print Date:  
09/21/2022

		STEV	10 mg/m3 Mist	CA QC OEL
		TWA	1 mg/m3 Mist	CA BC OEL
DISTILLATES (PETROLEUM), SOLVENT-DEWAXED HEAVY PARAFFINIC	64742-65-0	TWA	5 mg/m3 Mist	CA AB OEL
		STEL	10 mg/m3 Mist	CA AB OEL
		TWAEV	5 mg/m3 Mist	CA QC OEL
		STEV	10 mg/m3 Mist	CA QC OEL
		TWA	0.2 mg/m3 Mist	CA BC OEL
		TWA	1 mg/m3 Mist	CA BC OEL

**Engineering measures** : Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below exposure guidelines (if applicable) or below levels that cause known, suspected or apparent adverse effects.

## Personal protective equipment

**Respiratory protection** : No personal respiratory protective equipment normally required.

In the case of vapour formation use a respirator with an approved filter.

A NIOSH-approved air-purifying respirator with an appropriate cartridge and/or filter may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits (if applicable) or if overexposure has otherwise been determined. Protection provided by air-purifying respirators is limited. Use a positive pressure, air-supplied respirator if there is any potential for uncontrolled release, exposure levels are not known or any other circumstances where an air-purifying respirator may not provide adequate protection.

**Hand protection**  
Remarks

: The suitability for a specific workplace should be discussed with the producers of the protective gloves.

**Eye protection**

: Wear chemical splash goggles when there is the potential for exposure of the eyes to liquid, vapor or mist.

**Skin and body protection**

: Wear resistant gloves (consult your safety equipment supplier).  
Choose body protection according to the amount and



## SAFETY DATA SHEET

All Fleet™ SAE 15W-40 Engine Oil

Version: 2.6

Revision Date: 05/03/2021

Print Date:  
09/21/2022

concentration of the dangerous substance at the work place.  
Safety shoes  
Impervious clothing  
Wear as appropriate:

Hygiene measures : When using do not smoke.  
When using do not eat or drink.  
Wash hands before breaks and at the end of workday.

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : liquid

Colour : amber

Odour : hydrocarbon-like

Odour Threshold : No data available

pH : No data available

Melting point/freezing point : No data available

Boiling point/boiling range : No data available

Flash point : > 199 °C  
Method: Cleveland open cup

Evaporation rate : No data available

Flammability (solid, gas) : No data available

Self-ignition : No data available

Upper explosion limit / Upper flammability limit : 6 %(V)  
Calculated Explosive Limit

Lower explosion limit / Lower flammability limit : 1 %(V)  
Calculated Explosive Limit

Vapour pressure : 0.0133333 hPa (21.11 °C)  
Calculated Vapor Pressure

Relative vapour density : No data available

Relative density : No data available



## SAFETY DATA SHEET

All Fleet™ SAE 15W-40 Engine Oil

Version: 2.6

Revision Date: 05/03/2021

Print Date:  
09/21/2022

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Density	:	0.880 g/cm <sup>3</sup> (15.6 °C)
Solubility(ies)		
Water solubility	:	negligible
Solubility in other solvents	:	No data available
Partition coefficient: n-octanol/water	:	No data available
Decomposition temperature	:	No data available
Viscosity		
Viscosity, dynamic	:	No data available
Viscosity, kinematic	:	ca. 112 mm <sup>2</sup> /s ( 40 °C)
Oxidizing properties	:	No data available

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### SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	No decomposition if stored and applied as directed.
Chemical stability	:	Stable under recommended storage conditions.
Possibility of hazardous reactions	:	Product will not undergo hazardous polymerization.
Conditions to avoid	:	excessive heat
Incompatible materials	:	Acids Strong oxidizing agents
Hazardous decomposition products		No hazardous decomposition products are known.

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### SECTION 11. TOXICOLOGICAL INFORMATION

#### Information on likely routes of exposure

Inhalation  
Skin contact  
Eye Contact  
Ingestion

#### Acute toxicity

Not classified based on available information.

#### Product:



## SAFETY DATA SHEET

All Fleet™ SAE 15W-40 Engine Oil

Version: 2.6

Revision Date: 05/03/2021

Print Date:  
09/21/2022

Acute oral toxicity : Acute toxicity estimate: > 5,000 mg/kg  
Method: Calculation method

### **Components:**

#### **DISTILLATES (PETROLEUM), HYDROTREATED HEAVY PARAFFINIC:**

Acute oral toxicity : LD50 (Rat): > 15 g/kg

Acute dermal toxicity : LD50 (Rabbit): > 5 g/kg

#### **Phosphorodithioic acid, mixed O,O-bis(sec-Bu and isooctyl) esters, zinc salts:**

Acute oral toxicity : LD50 (Rat): 2,900 mg/kg  
Remarks: Information given is based on data obtained from similar substances.

Acute dermal toxicity : LD50 (Rabbit): > 2,000 mg/kg  
Assessment: Not classified as acutely toxic by dermal absorption under GHS.  
Remarks: Information given is based on data obtained from similar substances.

#### **PHOSPHORODITHIOIC ACID, MIXED O,O-BIS(1,3-DIMETHYLBUTYL AND ISO-PR) ESTERS, ZINC SALTS:**

Acute oral toxicity : LD50 (Rat): 3,100 mg/kg

Acute inhalation toxicity : LC50 (Rat): > 2.3 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour  
Assessment: No adverse effect has been observed in acute inhalation toxicity tests.

Acute dermal toxicity : LD50 (Rat): > 2,000 mg/kg  
Assessment: No adverse effect has been observed in acute dermal toxicity tests.

#### **DISTILLATES (PETROLEUM), HYDROTREATED HEAVY PARAFFINIC:**

Acute oral toxicity : LD50 (Rat): > 15 g/kg

Acute dermal toxicity : LD50 (Rabbit): > 5 g/kg

#### **DISTILLATES (PETROLEUM), SOLVENT-DEWAXED HEAVY PARAFFINIC:**

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg

Acute dermal toxicity : LD50 (Rabbit): > 5,000 mg/kg

#### **Phosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and iso-Bu and iso-Pr) esters, zinc salts:**

Acute oral toxicity : LD50 (Rat): 2,570 - 3,700 mg/kg

Acute inhalation toxicity : LC50 (Rat): > 2.3 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist





## SAFETY DATA SHEET

All Fleet™ SAE 15W-40 Engine Oil

Version: 2.6

Revision Date: 05/03/2021

Print Date:  
09/21/2022

Assessment: Not classified as acutely toxic by inhalation under GHS.

Remarks: No mortality observed at this dose.

Acute dermal toxicity : LD50 (Rabbit): > 20,000 mg/kg

### **Skin corrosion/irritation**

Not classified based on available information.

### **Product:**

Remarks : May cause skin irritation in susceptible persons.

### **Components:**

#### **DISTILLATES (PETROLEUM), HYDROTREATED HEAVY PARAFFINIC:**

Assessment : Slight, transient irritation

Result : Slight, transient irritation

#### **Phosphorodithioic acid, mixed O,O-bis(sec-Bu and isooctyl) esters, zinc salts:**

Result : Irritating to skin.

Remarks : Information given is based on data obtained from similar substances.

#### **PHOSPHORODITHIOIC ACID, MIXED O,O-BIS(1,3-DIMETHYLBUTYL AND ISO-PR) ESTERS, ZINC SALTS:**

Species : Rabbit

Result : Irritating to skin.

#### **phenol, (tetrapropenyl) derivatives:**

Result : Corrosive to skin

#### **DISTILLATES (PETROLEUM), HYDROTREATED HEAVY PARAFFINIC:**

Assessment : Slight, transient irritation

Result : Slight, transient irritation

#### **DISTILLATES (PETROLEUM), SOLVENT-DEWAXED HEAVY PARAFFINIC:**

Assessment : Slight, transient irritation

Result : Slight, transient irritation

#### **Phosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and iso-Bu and iso-Pr) esters, zinc salts:**

Species : Rabbit

Result : Irritating to skin.

### **Serious eye damage/eye irritation**

Not classified based on available information.

### **Product:**

Remarks : Causes serious eye irritation.  
Vapours may cause irritation to the eyes, respiratory system and the skin.



## SAFETY DATA SHEET

All Fleet™ SAE 15W-40 Engine Oil

Version: 2.6

Revision Date: 05/03/2021

Print Date:  
09/21/2022

### **Components:**

#### **DISTILLATES (PETROLEUM), HYDROTREATED HEAVY PARAFFINIC:**

Result : No eye irritation  
Assessment : No eye irritation

#### **Phosphorodithioic acid, mixed O,O-bis(sec-Bu and isooctyl) esters, zinc salts:**

Result : Corrosive  
Remarks : Information given is based on data obtained from similar substances.

#### **PHOSPHORODITHIOIC ACID, MIXED O,O-BIS(1,3-DIMETHYLBUTYL AND ISO-PR) ESTERS, ZINC SALTS:**

Species : Rabbit  
Result : Corrosive

#### **phenol, (tetrapropenyl) derivatives:**

Result : Corrosive

#### **DISTILLATES (PETROLEUM), HYDROTREATED HEAVY PARAFFINIC:**

Result : No eye irritation  
Assessment : No eye irritation

#### **DISTILLATES (PETROLEUM), SOLVENT-DEWAXED HEAVY PARAFFINIC:**

Result : Slight, transient irritation  
Assessment : Slight, transient irritation

#### **Phosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and iso-Bu and iso-Pr) esters, zinc salts:**

Species : Rabbit  
Result : Irritating to eyes.

### **Respiratory or skin sensitisation**

#### **Skin sensitisation**

Not classified based on available information.

#### **Respiratory sensitisation**

Not classified based on available information.

### **Components:**

#### **Phosphorodithioic acid, mixed O,O-bis(sec-Bu and isooctyl) esters, zinc salts:**

Test Type : Buehler Test  
Species : Guinea pig  
Assessment : Did not cause sensitisation on laboratory animals.  
Remarks : Information given is based on data obtained from similar substances.

#### **PHOSPHORODITHIOIC ACID, MIXED O,O-BIS(1,3-DIMETHYLBUTYL AND ISO-PR) ESTERS, ZINC SALTS:**

Test Type : Buehler Test  
Species : Guinea pig  
Assessment : Does not cause skin sensitisation.  
Method : OECD Test Guideline 406



## SAFETY DATA SHEET

All Fleet™ SAE 15W-40 Engine Oil

Version: 2.6

Revision Date: 05/03/2021

Print Date:  
09/21/2022

### **Phosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and iso-Bu and iso-Pr) esters, zinc salts:**

Test Type : Buehler Test  
Species : Guinea pig  
Assessment : Does not cause skin sensitisation.  
Method : OECD Test Guideline 406

### **Germ cell mutagenicity**

Not classified based on available information.

#### **Components:**

### **Phosphorodithioic acid, mixed O,O-bis(sec-Bu and isooctyl) esters, zinc salts:**

Genotoxicity in vitro : Remarks: In vitro tests showed mutagenic effects which were not observed with in vivo test.

Genotoxicity in vivo : Test Type: chromosome aberration assay  
Species: Mouse  
Cell type: peripheral blood cells  
Result: negative

### **PHOSPHORODITHIOIC ACID, MIXED O,O-BIS(1,3-DIMETHYLBUTYL AND ISO-PR) ESTERS, ZINC SALTS:**

Genotoxicity in vitro : Test Type: Ames test  
Test system: Salmonella typhimurium  
Metabolic activation: with and without metabolic activation  
Result: negative

### **Phosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and iso-Bu and iso-Pr) esters, zinc salts:**

Genotoxicity in vitro : Test Type: Ames test  
Test system: Salmonella typhimurium  
Metabolic activation: with and without metabolic activation  
Result: negative

### **Carcinogenicity**

Not classified based on available information.

#### **Components:**

### **DISTILLATES (PETROLEUM), HYDROTREATED HEAVY PARAFFINIC:**

Carcinogenicity - : Classified based on DMSO extract content < 3% (Regulation  
Assessment (EC) 1272/2008, Annex VI, Part 3, Note L)

### **DISTILLATES (PETROLEUM), HYDROTREATED HEAVY PARAFFINIC:**

Carcinogenicity - : Classified based on DMSO extract content < 3% (Regulation  
Assessment (EC) 1272/2008, Annex VI, Part 3, Note L)

### **Reproductive toxicity**

Not classified based on available information.

#### **Components:**

### **Phosphorodithioic acid, mixed O,O-bis(sec-Bu and isooctyl) esters, zinc salts:**

Effects on fertility : Species: Rat  
Application Route: Oral  
Dose: 100 mg/kg bw/day



## SAFETY DATA SHEET

All Fleet™ SAE 15W-40 Engine Oil

Version: 2.6

Revision Date: 05/03/2021

Print Date:  
09/21/2022

Symptoms: No effects on reproduction parameters

Effects on foetal  
development

: Species: Rat  
Application Route: Oral  
Developmental Toxicity: NOAEL F1: 100 mg/kg body weight

### **phenol, (tetrapropenyl) derivatives:**

Reproductive toxicity - Assessment : Clear evidence of adverse effects on sexual function and fertility, and/or on development, based on animal experiments

### **STOT - single exposure**

Not classified based on available information.

### **STOT - repeated exposure**

Not classified based on available information.

### **Aspiration toxicity**

Not classified based on available information.

### **Product:**

No aspiration toxicity classification

### **Components:**

#### **DISTILLATES (PETROLEUM), HYDROTREATED HEAVY PARAFFINIC:**

No aspiration toxicity classification

#### **DISTILLATES (PETROLEUM), HYDROTREATED HEAVY PARAFFINIC:**

No aspiration toxicity classification

#### **DISTILLATES (PETROLEUM), SOLVENT-DEWAXED HEAVY PARAFFINIC:**

May be fatal if swallowed and enters airways.

### **Further information**

#### **Product:**

Remarks : No data available

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## SECTION 12. ECOLOGICAL INFORMATION

### **Ecotoxicity**

#### **Product:**

Ecotoxicology Assessment

Short-term (acute) aquatic hazard : Not classified based on available information.

Long-term (chronic) aquatic hazard : Not classified based on available information.

### **Components:**

#### **DISTILLATES (PETROLEUM), HYDROTREATED HEAVY PARAFFINIC:**

Toxicity to fish : LL50 (Fish): > 100 mg/l  
Exposure time: 96 h



## SAFETY DATA SHEET

All Fleet™ SAE 15W-40 Engine Oil

Version: 2.6

Revision Date: 05/03/2021

Print Date:  
09/21/2022

Toxicity to daphnia and other aquatic invertebrates	: EL50 (Aquatic invertebrates): > 10,000 mg/l Exposure time: 48 h
Toxicity to algae	: EL50 (Algae, algal mat (Algae)): > 100 mg/l Exposure time: 72 h
Toxicity to fish (Chronic toxicity)	: NOEC (Fish): 10 mg/l
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	: NOEC (Aquatic invertebrates): 10 mg/l
Ecotoxicology Assessment Short-term (acute) aquatic hazard	: Not classified based on available information.
Long-term (chronic) aquatic hazard	: Not classified based on available information.
Phosphorodithioic acid, mixed O,O-bis(sec-Bu and isooctyl) esters, zinc salts: Toxicity to fish	: LC50 (Oncorhynchus mykiss (rainbow trout)): 4.5 mg/l Exposure time: 96 h Remarks: Information given is based on data obtained from similar substances.
PHOSPHORODITHIOIC ACID, MIXED O,O-BIS(1,3-DIMETHYLBUTYL AND ISO-PR) ESTERS, ZINC SALTS:	
Toxicity to fish	: LL50 (Oncorhynchus mykiss (rainbow trout)): 4.5 mg/l Exposure time: 96 h Test Type: semi-static test Test substance: WAF Method: OECD Test Guideline 203
Toxicity to daphnia and other aquatic invertebrates	: EL50 (Daphnia magna (Water flea)): 23 mg/l Exposure time: 48 h Test Type: static test Test substance: WAF Method: OECD Test Guideline 202
Toxicity to algae	: EL50 (Desmodesmus subspicatus (green algae)): 24 mg/l End point: Growth inhibition Exposure time: 72 h Test Type: static test Test substance: WAF Method: OECD Test Guideline 201
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	: NOEC (Daphnia magna (Water flea)): 0.4 mg/l Exposure time: 28 d End point: Reproduction Test Test substance: WAF



## SAFETY DATA SHEET

All Fleet™ SAE 15W-40 Engine Oil

Version: 2.6

Revision Date: 05/03/2021

Print Date:  
09/21/2022

Method: OECD Test Guideline 211

Ecotoxicology Assessment  
Short-term (acute) aquatic  
hazard

: Acute aquatic toxicity Category 2; Toxic to aquatic life.

Long-term (chronic) aquatic  
hazard

: Chronic aquatic toxicity Category 2; Toxic to aquatic life with long lasting effects.

phenol, (tetrapropenyl) derivatives:

Ecotoxicology Assessment  
Short-term (acute) aquatic  
hazard

: Very toxic to aquatic life.

Long-term (chronic) aquatic  
hazard

: Very toxic to aquatic life with long lasting effects.

DISTILLATES (PETROLEUM), HYDROTREATED HEAVY PARAFFINIC:

Toxicity to fish

: LL50 (Fish): > 100 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other  
aquatic invertebrates

: EL50 (Aquatic invertebrates): > 10,000 mg/l  
Exposure time: 48 h

Toxicity to algae

: EL50 (Algae, algal mat (Algae)): > 100 mg/l  
Exposure time: 72 h

Toxicity to fish (Chronic  
toxicity)

: NOEC (Fish): 10 mg/l

Toxicity to daphnia and other  
aquatic invertebrates  
(Chronic toxicity)

: NOEC (Aquatic invertebrates): 10 mg/l

Ecotoxicology Assessment  
Short-term (acute) aquatic  
hazard

: Not classified based on available information.

Long-term (chronic) aquatic  
hazard

: Not classified based on available information.

Phosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and iso-Bu and iso-Pr) esters, zinc salts:

Toxicity to fish

: LL50 (Oncorhynchus mykiss (rainbow trout)): 4.5 mg/l  
Exposure time: 96 h  
Test Type: semi-static test  
Remarks: Information given is based on data obtained from similar substances.

Toxicity to daphnia and other  
aquatic invertebrates

: EC50 (Daphnia magna (Water flea)): 5.4 mg/l  
Exposure time: 48 h  
Test Type: static test



## SAFETY DATA SHEET

All Fleet™ SAE 15W-40 Engine Oil

Version: 2.6

Revision Date: 05/03/2021

Print Date:  
09/21/2022

Test substance: WAF

Toxicity to algae : (Selenastrum capricornutum (green algae)): 2.1 mg/l  
End point: Growth inhibition  
Exposure time: 96 h  
Test Type: static test  
Test substance: WAF

### Persistence and degradability

#### Components:

Phosphorodithioic acid, mixed O,O-bis(sec-Bu and isooctyl) esters, zinc salts:

Biodegradability : Result: Not readily biodegradable.  
Remarks: Information given is based on data obtained from similar substances.

PHOSPHORODITHIOIC ACID, MIXED O,O-BIS(1,3-DIMETHYLBUTYL AND ISO-PR) ESTERS, ZINC SALTS:

Biodegradability : Result: Not readily biodegradable.  
Biodegradation: 1.5 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301B

Phosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and iso-Bu and iso-Pr) esters, zinc salts:

Biodegradability : Result: Not readily biodegradable.  
Biodegradation: 1.5 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301B  
Remarks: Information given is based on data obtained from similar substances.

No data available

### Bioaccumulative potential

#### Components:

DISTILLATES (PETROLEUM), HYDROTREATED HEAVY PARAFFINIC:

Partition coefficient: n-octanol/water : log Pow: Expected > 7

Phosphorodithioic acid, mixed O,O-bis(sec-Bu and isooctyl) esters, zinc salts:

Bioaccumulation : Bioconcentration factor (BCF): 3  
Remarks: Information given is based on data obtained from similar substances.

PHOSPHORODITHIOIC ACID, MIXED O,O-BIS(1,3-DIMETHYLBUTYL AND ISO-PR) ESTERS, ZINC SALTS:

Partition coefficient: n-octanol/water : log Pow: 0.56

phenol, (tetrapropenyl) derivatives:

Partition coefficient: n-octanol/water : log Pow: 7.1



## SAFETY DATA SHEET

All Fleet™ SAE 15W-40 Engine Oil

Version: 2.6

Revision Date: 05/03/2021

Print Date:  
09/21/2022

DISTILLATES (PETROLEUM), HYDROTREATED HEAVY PARAFFINIC:

Partition coefficient: n-octanol/water : log Pow: Expected > 7

Phosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and iso-Bu and iso-Pr) esters, zinc salts:

Partition coefficient: n-octanol/water : log Pow: 8.8  
Remarks: QSAR

No data available

### **Mobility in soil**

#### **Components:**

No data available

### **Other adverse effects**

No data available

### **Product:**

Additional ecological information : No data available

### **Components:**

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## SECTION 13. DISPOSAL CONSIDERATIONS

### **Disposal methods**

General advice : Dispose of in accordance with all applicable local, state and federal regulations.

Send to a licensed waste management company.  
Do not contaminate ponds, waterways or ditches with chemical or used container.  
Do not dispose of waste into sewer.

Contaminated packaging : Do not re-use empty containers.  
Empty containers should be taken to an approved waste handling site for recycling or disposal.  
Dispose of as unused product.  
Empty remaining contents.

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## SECTION 14. TRANSPORT INFORMATION

### **International Regulations**

#### **UNRTDG**

Not regulated as a dangerous good

#### **IATA-DGR**

Not regulated as a dangerous good

#### **IMDG-Code**

Not regulated as a dangerous good





## SAFETY DATA SHEET

All Fleet™ SAE 15W-40 Engine Oil

Version: 2.6

Revision Date: 05/03/2021

Print Date:  
09/21/2022

### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

### National Regulations

#### TDG

Not regulated as a dangerous good

Dangerous goods descriptions (if indicated above) may not reflect quantity, end-use or region-specific exceptions that can be applied. Consult shipping documents for descriptions that are specific to the shipment.

## SECTION 15. REGULATORY INFORMATION

**NPRI Components** : Phosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and iso-Bu and iso-Pr) esters, zinc salts

### The components of this product are reported in the following inventories:

DSL : All components of this product are on the Canadian DSL

AICS : Not in compliance with the inventory

ENCS : Not in compliance with the inventory

KECI : Not in compliance with the inventory

PICCS : On the inventory, or in compliance with the inventory

IECSC : On the inventory, or in compliance with the inventory

TCSI : On the inventory, or in compliance with the inventory

TSCA : On TSCA Inventory

### Inventories

AICS (Australia), AIIIC (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TCSI (Taiwan), TSCA (USA)

## SECTION 16. OTHER INFORMATION

### Further information

Internal information : R0171784

**NFPA:**

**HMIS III:**



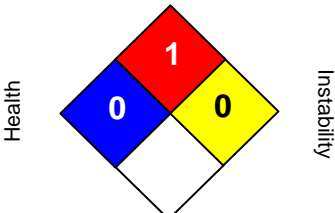
## SAFETY DATA SHEET

All Fleet™ SAE 15W-40 Engine Oil

Version: 2.6

Revision Date: 05/03/2021

Print Date:  
09/21/2022

<p>Flammability</p> <p>Health</p> <p>Instability</p> <p>Special hazard</p> 	<table border="1"><tr><td><b>HEALTH</b></td><td><b>0</b></td></tr><tr><td><b>FLAMMABILITY</b></td><td><b>1</b></td></tr><tr><td><b>PHYSICAL HAZARD</b></td><td><b>0</b></td></tr></table> <p>0 = not significant, 1 = Slight, 2 = Moderate, 3 = High 4 = Extreme, * = Chronic</p>	<b>HEALTH</b>	<b>0</b>	<b>FLAMMABILITY</b>	<b>1</b>	<b>PHYSICAL HAZARD</b>	<b>0</b>
<b>HEALTH</b>	<b>0</b>						
<b>FLAMMABILITY</b>	<b>1</b>						
<b>PHYSICAL HAZARD</b>	<b>0</b>						

### NFPA Flammable and Combustible Liquids Classification

Combustible Liquid Class IIIB

### Full text of H-Statements

H304	May be fatal if swallowed and enters airways.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H360	May damage fertility or the unborn child.

Sources of key data used to compile the Safety Data Sheet

Valvoline internal data including own and sponsored test reports

The UNECE administers regional agreements implementing harmonised classification for labelling (GHS) and transport.

The information accumulated herein is believed to be accurate but is not warranted to be whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances. This SDS has been prepared by Valvoline's Environmental Health and Safety Department (1-800-VALVOLINE).

List of abbreviations and acronyms that could be, but not necessarily are, used in this safety data sheet :

ACGIH : American Conference of Industrial Hygienists

BEI : Biological Exposure Index

CAS : Chemical Abstracts Service (Division of the American Chemical Society).

CMR : Carcinogenic, Mutagenic or Toxic for Reproduction

FG : Food grade

GHS : Globally Harmonized System of Classification and Labeling of Chemicals.

H-statement : Hazard Statement



## SAFETY DATA SHEET

All Fleet™ SAE 15W-40 Engine Oil

Version: 2.6

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IATA : International Air Transport Association.

IATA-DGR : Dangerous Goods Regulation by the "International Air Transport Association" (IATA).

ICAO : International Civil Aviation Organization

ICAO-TI (ICAO) : Technical Instructions by the "International Civil Aviation Organization"

IMDG : International Maritime Code for Dangerous Goods

ISO : International Organization for Standardization

logPow : octanol-water partition coefficient

LCxx : Lethal Concentration, for xx percent of test population

LDxx : Lethal Dose, for xx percent of test population.

ICxx : Inhibitory Concentration for xx of a substance

Ecxx : Effective Concentration of xx

N.O.S.: Not Otherwise Specified

OECD : Organization for Economic Co-operation and Development

OEL : Occupational Exposure Limit

P-Statement : Precautionary Statement

PBT : Persistent , Bioaccumulative and Toxic

PPE : Personal Protective Equipment

STEL : Short-term exposure limit

STOT : Specific Target Organ Toxicity

TLV : Threshold Limit Value

TWA : Time-weighted average

vPvB : Very Persistent and Very Bioaccumulative

WEL : Workplace Exposure Level

CERCLA : Comprehensive Environmental Response, Compensation, and Liability Act

DOT : Department of Transportation

FIFRA : Federal Insecticide, Fungicide, and Rodenticide Act

HMIRC : Hazardous Materials Information Review Commission

HMIS : Hazardous Materials Identification System

NFPA : National Fire Protection Association

NIOSH : National Institute for Occupational Safety and Health

OSHA : Occupational Safety and Health Administration

PMRA : Health Canada Pest Management Regulatory Agency

RTK : Right to Know

WHMIS : Workplace Hazardous Materials Information System